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	In the second half of 1986 the Iraqi Air Force succeeded in se	everely	
	damaging Iran's economy. The Iraqi Air Force's increased		
	effectiveness is an outgrowth of developing proficiency with n modern aircraft and weapons, weak Iranian air defenses, and	l more	
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Article		
Why the Irac: Air Force		
Why the Iraqi Air Force		
Has Been More Effective		0574
Ellective		25 X 1
In the second half of 1986 the Iraqi Air Force, for the	has marked Air Force operations throughout the war,	
first time in the Iran-Iraq war, succeeded in severely	and instructions to avoid aircraft losses remained in	
damaging Iran's economy. Air raids on major oil	force in 1985.	25X1
export facilities at Khark, Sirri, and Larak Islands	101 cc III 1703.	20/(1
have robbed Tehran of much-needed oil revenues.	In the past year, Iraq has increasingly relied upon the	
Attacks on oilfields and refineries have caused fuel	French-made Mirage F-1. The precision-guided	
shortages and forced the regime to ration gasoline. In	munitions used by the F-1, the French-built Exocet	
December, Baghdad began to target electrical	and AS-30L, have provided greater accuracy and	
generation and transmission stations, aggravating	caused more damage than iron bombs. These missiles	
already serious power outages in Tehran. The Iraqi	also have allowed Iraqi pilots to use relatively more	
Air Force's increased effectiveness is an outgrowth of	daring tactics without exposing themselves to greater	
developing proficiency with more modern aircraft and	risk. Moreover, Baghdad has substantially increased	
weapons, weak Iranian air defenses, and more	the number of attacks against economic facilities and	
aggressive tactics.	has engaged in a series of identifiable campaigns—	25 X 1
	including repeated bombings—against critical	
Iraq's successes have reshaped perceptions about the	strategic targets.	25X1
course of the war. In early 1986, Iraq's ability to stave		
off ultimate defeat was in doubt, but, as 1987 begins,	Modernization Pays Off	
it is Iran's ability to withstand the pressures of a	Despite the war, Iraq has continued the Air Force	
collapsing economy and to continue the war that is in	modernization program begun just before the conflict.	
question. In addition to hastening the deterioration of	The addition in recent years of more modern aircraft,	
the Iranian economy, Iraq's air campaign is likely to	such as the Mirage F-1, and new ordnance has slowly	
reduce popular support for the war and possibly the	expanded the Air Force's capabilities. Although the	25 X 1
Khomeini regime.	F-1 was operationally employed in 1984, we believe	23/1
Dookground	that it has taken time for sufficient numbers of Iraqi	
Background There are numerous differences between Iraq's	pilots—originally trained in fighter tactics—to reach a level of proficiency necessary to sustain the current	
application of airpower against strategic targets in	bombing campaign.	0EV4
1985 and the past year. Throughout much of 1985,	bomonig campaign.	25 X 1
Baghdad primarily used Soviet-built MIG-25 Foxbat		25 X 1
fighters. This aircraft was not designed as a bomber		23/
but was used by Iraq to drop iron bombs because it		
could operate in relative safety from high altitudes at		
high speeds. Baghdad usually sent too few aircraft to		
do much damage given the tactics and weapons		
employed. Also, Iraqi raids were sporadic, and		
Baghdad failed to follow up with repeated attacks		
against economic installations. Political interference		

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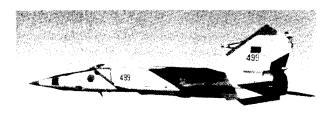
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MIG-25

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The introduction of the AS-30L laser-guided air-tosurface missiles in 1986 has been critical to the Air Force's improved performance. In late 1985, Iraq used the Exocet missile against Khark Island, but it is not suitable for use against most other economic targets because of its guidance system and small warhead. The AS-30L, however, provides greater accuracy and, with its 240- to 250-kilogram warhead, causes more damage than either the Exocet or some iron bombs. Using either missile has allowed Iraqi pilots to employ better delivery tactics.

The Iraqis also have used the F-1's air-to-air refueling capability to attack more distant targets. In a technique mastered only in 1986, Iraqi pilots have extended the combat radius of their aircraft by drawing fuel from the buddy tanks on other F-1s. This ability has been critical in Iraq's long-range strikes against Iranian oil export terminals at Sirri and Larak Islands

Iraq's Airpower Goals

Iraqi air strategy has focused on two main objectives throughout the war. Priority has been given to preventing an Iraqi defeat by using the Air Force to help stop Iranian offensives. Baghdad's other goal has been to try to force Tehran to end the war by attacking economic targets. Despite overwhelming advantages in the air, Iraq has not done well in either mission until its recent successes against Iran's economy.

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This outcome was partly the result of limitations placed on the Air Force by the regime. Although Baghdad has been relaxing these limits, we believe that the use of Iraqi airpower remains constrained by two main requirements:

- The Air Force must keep aircraft losses low to preserve its assets and maintain air superiority until the war ends. In our judgment, this requirement overrides all other considerations in Iraqi air strategy.
- Air attacks should cause only enough damage to Iran to bring an end to the war without provoking or its Gulf Arab allies. Baghdad also wants to avoid rallying Iranian support behind the clerical regime.

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the Iranians to make drastic reprisals against Iraq

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Iran's Weak Air Defenses

Another element contributing to Iraq's recent successes has been the inadequacy of Iranian air defenses. Iran's air defenses and ground-based air defenses have been only moderately effective throughout the war. The general deterioration of the Iranian Air Force and the shortages of equipment, spare parts, and capable maintenance personnel for antiaircraft weapon systems and radars have stymied most of Tehran's efforts to improve its air defense.

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pilots not to take risks, but the campaign has continued and Iraqi losses have been tolerable —only two F-1s have been shot down. Moreover, because of its shrinking inventory, Iran has fired only a few Scud surface-to-surface missiles in retaliation. The Scuds concern Baghdad, but not enough to sidetrack the air campaign. Tehran's other forms of retaliation—usually artillery barrages, or one or two aircraft conducting raids across the border—are largely ineffective.	25X1 25X1
economic targets, however, these defenses were not put under pressure. The failure of Iran's air defenses probably has bolstered Iraqi confidence and	25X1 25X1 25X1
The Will To Win and Iraq's Growing Confidence Shaken by the defeats at Al Faw and Mehran, Baghdad apparently decided that it could no longer risk trying to outlast the Iranians in the war. Although averse to risking his better pilots and aircraft, Iraqi President Saddam Husayn probably determined that actions had to be initiated to reduce Iran's ability, if not its willingness, to fight. Iraq Iraqis will probably plan additional strikes against high-visibility targets such as Larak Island as the regime tries to raise morale while keeping pressure on Tehran. Baghdad may hope that Iranian discontent will cause Tehran to launch its planned offensive prematurely. Iraqis will probably plan additional strikes against	2525X1 25X1
Iranian forces, a threatened major offensive, and its own badly strained resources. We believe that Saddam may have been influenced by critics within the Ba'th Party and the insistence of Jordan, Egypt, and other Iraqi allies that Baghdad do more to seize offensive, however, probably would end the attacks on	25X1 25X1 25X1
Baghdad's willingness to extend the air campaign was probably reinforced by the growing competence of the Air Force, evidence that Iranian defenses were weak, and Tehran's inability to respond in kind. The Air Force's performance against economic targets	25X1 25X1 25X1

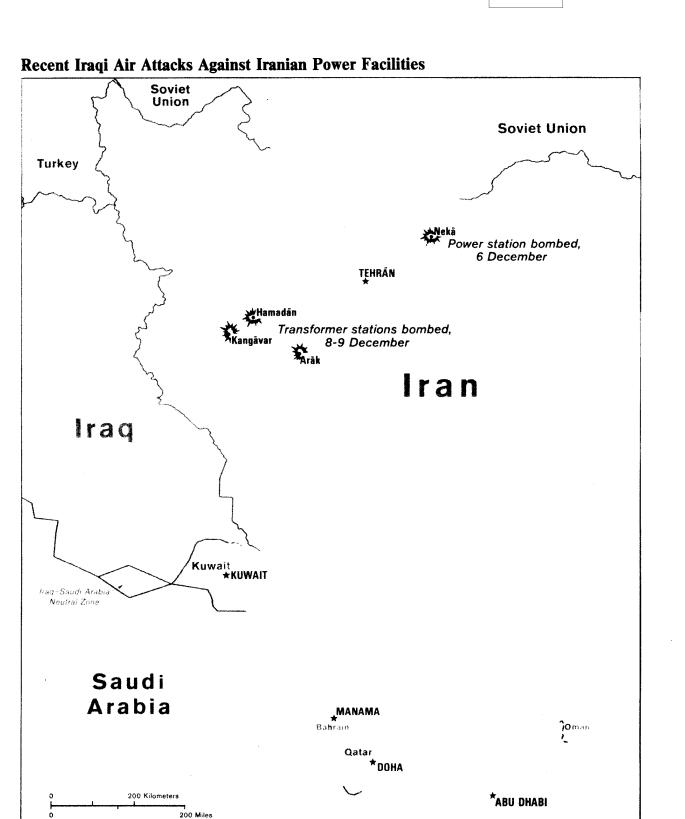
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restraining it. In late September, Saddam felt

compelled after several shootdowns to publicly tell his

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